## WHAT IS CLAIMED IS:

1. A method wherein a glass sheet, which has been heated to have a viscosity of not lower than  $10^5$  Pa·s and not higher than  $10^8$  Pa·s, is pressed against a mold having a certain bending surface to be bent in a shape along the bending surface;

comprising controlling a bending temperature T and a bending time period t for the glass sheet so as to satisfy the following formulas 1 and 2, and

bending the glass sheet:

$$0.05 < \phi < 2.00$$

Formula 1

$$\phi = \int_0^t \frac{P(\tau)}{\eta(T)} d\tau$$

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Formula 2

where  $P(\tau)$  is a surface pressure difference (unit: Pa)
between a pressure applied on a primary surface of the
glass sheet and a pressure applied on a rear surface of
the glass sheet at a time  $\tau$ , t is a bending time period
(unit: s),  $\eta(T)$  is the viscosity (unit: Pa·s) of the
glass sheet at a temperature T, and T is a bending
temperature (unit: °C) at the time  $\tau$ .

- 2. The method according to Claim 1, wherein the bent glass sheet includes a portion having a radius of curvature of not larger than 100 mm.
- 3. The method according to Claim 2, wherein the bent
  glass sheet includes a corner where three surfaces
  connect together, and each of the surfaces is a flat
  surface or a curved surface having a radius of curvature

of not smaller than 500 mm.

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- 4. The method according to Claim 1, further comprising sandwiching a peripheral portion of the glass sheet between the mold and a ring substantially conforming to a peripheral edge of the glass sheet, the bending surface of the mold being formed in a concave shape; and sucking air between the glass sheet and the bending surface during bending the glass sheet.
- 5. The method according to Claim 4, further comprising trimming a portion of the glass sheet sandwiched between the ring and the mold after bending the glass sheet.
  - 6. The method according to Claim 1, further comprising putting the glass sheet on a ring, and pressing the glass sheet against the mold to press the glass sheet during bending the glass sheet, the mold being provided above the glass sheet.
  - 7. The method according to Claim 1, wherein the glass sheet is bent primarily only by gravity.
- 8. The method according to Claim 1, further comprising applying a mold-releasing agent to the mold before bending the glass sheet.
  - 9. The method according to Claim 1, further comprising preparing the glass sheet by a float method.
  - 10. The method according to Claim 1, wherein the glass sheet is for production of an automobile window.
    - 11. The method according to Claim 1, further comprising blowing air to swell the glass sheet in a first direction,

followed by sucking air to bend the glass sheet in a second direction.

12. An apparatus where a glass sheet, which has been heated to have a viscosity of not lower than 10<sup>5</sup> Pa·s and not higher than 10<sup>8</sup> Pa·s, is pressed against a mold having a certain bending surface to be bent in a shape along the bending surface;

comprising a controller for performing operational monitoring of respective members in the apparatus and operational controlling of the respective members, the controller having a program code stored therein, the program code performing a step recited in Claim 1 in a computer.